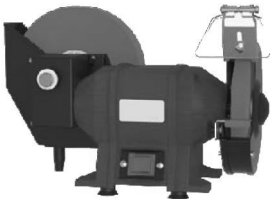


# Operating manual

Version 1.0

## Grinding machine

- ☐ **GQ 120**  Item no. 3141000
- ☐ **GQ 150**  Item no. 3141010
- ☐ **GQ 200**  Item no. 3141020
- ☐ **GQ 150 Q**  Item no. 3141050
- ☐ **GQ 150 B**  Item no. 3141060

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# 1 Safety

## Glossary of symbols

|   |                               |
|---|-------------------------------|
| ► | provides further instructions |
| → | calls on you to act           |
| ○ | listings                      |

This part of the operating instructions

- explains the meaning and use of the warning notes included in these operating instructions,
- defines the intended use of the grinding machine,
- points out the dangers that might arise for you or others if these instructions are not observed,
- informs you about how to avoid dangers.

In addition to these operating instructions, please observe

- the applicable laws and regulations,
- the statutory provisions for accident prevention,
- the prohibition, warning and mandatory signs as well as the warning notes on the grinding machine.

**Always keep this documentation close to the grinding machine.**

## 1.1 Safety instructions (warning notes)

### 1.1.1 Classification of hazards

We classify the safety warnings into different categories. The table below gives an overview of the classification of symbols (ideogram) and the warning signs for each specific danger and its (possible) consequences.

| Symbol                                                                              | Alarm expression   | Definition / consequence                                                                                                                  |
|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DANGER!</b>     | Impending danger that will cause serious injury or death to people.                                                                       |
|                                                                                     | <b>WARNING!</b>    | A danger that can cause serious injury or death.                                                                                          |
|                                                                                     | <b>CAUTION!</b>    | A danger or unsafe procedure that can cause personal injury or damage to property.                                                        |
|  | <b>ATTENTION!</b>  | Situation that could cause damage to the grinding machine and product, as well as other types of damage.<br>No risk of injury to persons. |
|  | <b>INFORMATION</b> | Practical tips and other important or useful information and notes.<br>No dangerous or harmful consequences for people or objects.        |

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## 1.1.2 Other pictograms



Warning: flammable substances!



Warning: suspended loads!



Risk of tripping!



Warning: tilting danger!



Warning: automatic start-up!



Warning: biological hazard!



Warning: injuries to hands!



Read the operating instruction!



Pull out the mains plug!



Wear protective glasses!



Use face shield!



Wear safety shoes!



Wear a protective suit!



Use ear protection!



Protect the environment!

## 1.2 Intended use

### WARNING!

In the event of improper use, the grinding machine

- o this may result in hazards for personnel,
- o the grinding machine and other material property of the operating company will be endangered,
- o the functionality of the grinding machine may be compromised.



The grinding machine is designed and manufactured exclusively for grinding and polishing metals using properly authorised grinding wheels, sanding belts or polishing wheels.

The grinding machine must be used exclusively for this purpose.

If the grinding machine is used in any other way than described above or modified without the authorisation of Stürmer Maschinen GmbH, the grinding machine is no longer being used as intended.

We will not be held liable for any damages resulting from any operation which is not in accordance with the intended use.

We expressly point out that any design, technical or procedural modifications not authorised by Stürmer Maschinen GmbH will also invalidate the warranty. Part of the intended use is that you

- o comply with the performance limits of the grinding machine: S6 40% operation and S6 10% operation.
- o observe the operating instructions
- o and comply with the inspection and maintenance instructions.

**WARNING!**

**Extremely severe injuries due to non-intended use.**

It is forbidden to make any modifications or alternations to the operating parameters values of the grinding machine. They could pose an accident hazard to persons and cause damage to the grinding machine.



**ATTENTION!**

If the grinding machine is not used as intended or if the safety directives or the operating instructions are ignored the liability of the manufacturer for any damages to personnel or objects resulting hereof is excluded and the claim under guarantee is becoming null and void!



### 1.3 Reasonably foreseeable misuse

Any use other than that specified under "Intended use" or any use beyond that described will be deemed non-intended use and is not permissible.

Any other use must be discussed with the manufacturer.

In order to avoid misuse, it is necessary to read and understand the operating instructions before first commissioning.

Operators must be duly qualified.

#### 1.3.1 Avoiding misuse

- The distance between the contact surface and the grinding disc must not exceed 2 mm. However, the distance may be greater if the grinding process and the material used require this for security reasons.
- Cleaning brushes and sanding brushes may only be used on the GQ150B. Only the protective cover on this grinding machine is suitable for wire brushes.
- Grinding wheels must not be installed in places that are designed for cleaning brushes.

We expressly point out that any design, technical or procedural modifications not authorised by Stürmer Maschinen GmbH will also invalidate the warranty.

**WARNING!**

**Risk of injury caused by flying workpieces.**

Ensure the gap between the grinding wheel and bearing surface is as small as possible and readjust the support surface immediately if the distance is too big.

If the support surface can no longer be adjusted, the grinding wheel must be replaced.



### 1.4 Possible dangers caused by the grinding machine

The grinding machine was built using state-of-the-art technology. Nevertheless, there is a residual risk, as the grinding machine operates with

- high speeds,
- rotating parts,
- with grinding wheels (emission of sparks),
- electrical voltage and currents.

We have minimized the risk to people's health from these hazards through design and safety technology.

If the grinding machine is used and maintained by personnel who are not duly qualified, there may be a risk resulting from its incorrect or unsuitable maintenance.

**INFORMATION**

Everyone involved in the assembly, commissioning, operation and maintenance must

- be duly qualified,



○ and strictly follow these operating instructions.

Always disconnect the grinding machine from the electrical power supply before performing cleaning or maintenance tasks.

### WARNING!

The grinding machine may only be used with fully functional safety devices.

Disconnect the grinding machine immediately, whenever you detect a failure in the safety devices or when they are not fitted!

All additional devices installed by the operator must be equipped with the stipulated safety devices.

This is your responsibility as the operator!

► Safety devices on page 7



## 1.5 Personnel qualification

### 1.5.1 Target group

This manual is addressed to

- the operating companies,
- the operators,
- the maintenance personnel.

Consequently, the warning notes refer both to the use of the grinding machine and to its maintenance.

Always disconnect the grinding machine from the electrical power supply. This will prevent it from being used by unauthorized persons.

The qualifications of the personnel for the different tasks are mentioned below:

#### Operator

The operator has been instructed by the operating company regarding the assigned tasks and possible risks in case of improper behaviour. The user may only carry out tasks that exceed normal operation if this is stated in these instructions and the operator has explicitly entrusted him with the task.

#### Qualified electrician

With professional training, knowledge and experience as well as knowledge of respective standards and regulations, qualified electricians are able to perform work on the electrical system and recognise and avoid any possible dangers.

Qualified electricians have been specially trained for the working environment, in which they are working and know the relevant standards and regulations.

#### Qualified personnel

Due to their professional training, knowledge and experience as well as knowledge of relevant regulations, qualified personnel are able to perform the assigned tasks and to independently recognise and avoid any possible dangers.

#### Instructed person

Instructed persons were instructed by the operating company regarding the assigned tasks and any possible risks of improper behaviour.

### INFORMATION

Everyone involved in the assembly, commissioning, operation and maintenance must

- be duly qualified,



- and strictly follow these operating instructions.

In the event of improper use

- there may be a risk to personnel,
- the grinding machine and other property and
- the functionality of the grinding machine may be compromised.

## 1.6 Operator positions

The user position is in front of the grinding machine. For machines with a sanding belt, the operator position on the sanding belt must be adapted to the workpiece being processed.

## 1.7 Safety measures during operation

### CAUTION!

**Danger due to inhaling dust and mist that are hazardous to health.**

Depending on the materials to be machined and the agents used, dusts and mists can arise that are detrimental to health.

Ensure that the harmful dust and mist generated are safely sucked off at the point of origin and routed away from the working area or filtered.



## 1.8 Safety devices

The grinding machine must only be operated with fully functional safety devices.

Stop the grinding machine immediately if there is a failure on the safety device or becomes ineffective.

It is your responsibility!

If a safety device has been activated or has failed, the grinding machine must only be used if

- have eliminated the cause of the malfunction,
- have satisfied yourself that it does not pose any danger to persons or property.

### WARNING!

**If you bypass, remove or override a safety device in any other way, you are endangering yourself and other persons working with the grinding machine. The possible consequences include:**

- injuries due to components or workpieces flying off at high speed,
- contact with rotating parts,
- fatal electrocution.

The grinding machine features the following safety devices:

- A spark protection on each grinding wheel.
- A protective guard with shaft cover on each grinding wheel.
- A support surface for the workpiece.



### WARNING!

**Although the isolating safety devices provided and delivered with the machine are designed to reduce the risks of workpieces being ejected or parts of tools or workpieces breaking off, they cannot eliminate these risks completely. Always work carefully and observe the limit values of the grinding process.**



### 1.8.1 Spark-guard and support surface

Adjust the guard to the correct height before you start working. To do so, slacken the clamping screw, set the required height and re-tighten the clamping screw. Observe the correct distance to the grinding wheel.

## 1.9 Safety check

Check the grinding machine regularly.

Check all safety devices

- before starting work,
- once a week (with the machine in operation) and
- after all maintenance and repair work.

## 1.10 Personal protective equipment

For certain work personal protective equipment is required.

- Protect your face and your eyes: Wear a safety helmet with facial protection when performing work where your face and eyes are exposed to hazards.  
Wear protective gloves when handling pieces with sharp edges.
- Use safety shoes when you assemble, disassemble or transport heavy components, or transport the grinding machine.
- Use ear protection if the noise level (emission) in the workplace exceeds 80 dB (A).
- Before starting work make sure that the required personal protective equipment is available at the work place.



### CAUTION!

Dirty or contaminated personal protective equipment can cause illness. They must be cleaned after each use and at least once a week.

## 1.11 For your own safety during operation

### WARNING!

Before switching on the grinding machine, make sure that no persons are endangered and no objects are damaged.

Avoid any unsafe work methods:

- The instructions mentioned in these operating instructions have to be strictly observed during assembly, operation, maintenance and repair.
- Use protective glasses!
- Do not work on the grinding machine, if your concentration is reduced, for example, because you are taking medication.
- Stay on the grinding machine until the working spindle has come to a complete standstill.  
Keep children away.
- Use the specified personal protective equipment. Ensure you wear close-fitting clothing and, if necessary, a hairnet.
- Make sure that your operation does not create a safety hazard.



## 1.12 Disconnecting and securing the grinding machine

Disconnect the mains plug before starting maintenance and repairs.



## 1.13 Emissions

The generation of noise emitted by the grinding machine is 70 to 80 dB(A). If the grinding machine is installed in an area where various machines are in operation, the noise exposure (immission) on the operator of the grinding machine at the working place may exceed 80 dB(A).

### INFORMATION

This numerical value was measured on a new machine under the operating conditions specified by the manufacturer. The noise behaviour of the machine might change depending on the age and wear of the machine.



Furthermore, the noise emission also depends on production engineering factors, e.g. speed, material and clamping conditions.

## INFORMATION

The specified numerical value represents the emission level and does not necessarily a safe working level. Though there is a dependency between the degree of the noise emission and the degree of the noise disturbance it is not possible to use it reliably to determine if further precaution measures are required or not. The following factors influence the actual degree of the noise exposure of the operator:



- Characteristics of the working area, e.g. size or damping behaviour,
- other noise sources, e.g. the number of machines,
- other processes taking place in proximity and the period of time, during which the operator is exposed to the noise.

Furthermore, it is possible that the admissible exposure level might be different from country to country due to national regulations. This information about the noise emission should, however, allow the operator of the machine to more easily evaluate the hazards and risks.

## CAUTION!

Depending on the overall noise exposure and the basic threshold values, machine operators must wear appropriate hearing protectors. We generally recommend the use of noise and ear protection.



### 1.14 Basic information on grinding wheels

- Various shortcomings during installation and operation can lead to the bursting of grinding wheels.
- Ordinary grinding wheels are generally not designed to withstand a greater lateral load.
- The tapping off cutting debris from the grinding wheel always leads to damage of the grinding wheel.
- Grinding wheels which have an imbalance can burst more easily.
- An unbalance of a grinding wheel cannot be completely removed by trueing with a diamond dresser.
- Incorrectly stored grinding wheels can burst immediately after switching on, or individual small fragments can fly away like a bullet.

## 2 Technical specification

|                                                               | GQ 120              | GQ 150              | GQ 200            | GQ 150 Q            | GQ 150 B            |
|---------------------------------------------------------------|---------------------|---------------------|-------------------|---------------------|---------------------|
| Electrical connection                                         | 230V ~50Hz (60Hz)   |                     |                   |                     |                     |
| Degree of protection                                          | IPX0                |                     |                   |                     |                     |
| Motor power S1 Operation                                      | 105 W               | 190 W               | 250 W             | 190 W               | 190 W               |
| * Motor power S6 / 40% duty cycle                             | 150 W               | -                   | -                 | -                   | -                   |
| * Motor power S6 / 10% duty cycle                             | -                   | 250 W               | 400 W             | 250 W               | 250 W               |
| Speed [ min <sup>-1</sup> ] (~50Hz)                           | 2980                |                     |                   |                     |                     |
| Grinding wheel [mm]<br>Outer diameter x width x mounting hole | 125 x 16 x<br>Ø12.7 | 150 x 20 x<br>Ø12.7 | 200 x 20 x<br>Ø16 | 150 x 20 x<br>Ø12.7 | 150 x 20 x<br>Ø12.7 |

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|                                                                                               |      |      |      |      |      |
|-----------------------------------------------------------------------------------------------|------|------|------|------|------|
| Grinding speed, peripheral speed of the grinding wheel, steel brush at ~50Hz connection [m/s] | 19.5 | 19.5 | 31.2 | 23.4 | 23.4 |
| Grinding speed, peripheral speed of the grinding wheel, steel brush at ~60Hz connection [m/s] | 23.4 | 23.4 | 37.5 | 28   | 28   |
| Net weight [kg]                                                                               | 4.3  | 6.5  | 9.5  | 8.2  | 8    |

\*Operating mode S6, duty cycle =40%, cycle time 10 min. The motor may run for 4 minutes under load and must then cool down for 6 minutes at idle, otherwise overheating would occur.

\*Operating mode S6, duty cycle =10%, cycle time 10 min. The motor may run for 1 minute under load and must then cool down for 9 minutes at idle, otherwise overheating would occur.

### 3 Unpacking and connecting

The grinding machine is delivered pre-assembled.

#### 3.1 Scope of delivery

Check the grinding machine immediately after delivery for transport damage, missing parts and loose locking bolts. Compare the scope of delivery with the delivery note. Grinding wheels and the cleaning brush for the GQ150B are available from specialist dealers or from our main catalogue.

#### 3.2 Storage

##### ATTENTION!

Incorrect and improper storage might result in damage or destruction of electrical and mechanical machine components.

Store packed and unpacked parts only under the intended environmental conditions. Follow the instructions and information on the transport box.

Contact Stürmer Maschinen GmbH if the machine and accessories need to be stored for longer than three months and under ambient conditions other than those specified.



#### 3.3 Set-up and assembly

##### 3.3.1 Installation site requirements

Organise the working area around the grinding machine according to the local safety regulations.

##### WARNING!

The grinding machine must be firmly connected to the substructure.



##### INFORMATION

In order to achieve high levels of functionality and machining accuracy, as well as a long service life of the machine, the set-up location should meet certain criteria.

The following points should be noted:

- The device must only be installed and operated in a dry and well-ventilated place.
- Avoid places close to machines which cause chips or dust.
- The installation site must be vibration-free, i.e. located away from presses, planing machines, etc.



- The foundation must be suitable for the grinding machine. Also make sure that the floor has sufficient load bearing capacity and is level.
- The ground must be prepared in such a way that any coolant used cannot penetrate the ground.
- Any parts sticking out such as stops, handles, etc. have to be secured by measures taken by the customer if necessary in order to avoid endangering persons.
- Provide enough space for set-up and operating personnel and material transport.
- Also bear in mind accessibility for installation and maintenance works.
- Ensure adequate lighting is available (minimum value: 500 Lux, measured at the tool tip). In the event of a lower level of lighting, additional illumination must be provided, e.g. by means of a separate workplace light.
- The power plug of the grinding machine must be readily accessible.

**CAUTION!**

Position the power lead for the machine in such a manner that people cannot trip over it.



### 3.4 First commissioning

For first commissioning, the grinding wheels must be trued with a dressing stone to ensure the true running of the grinding wheels.

Grinding wheels made from compound abrasives have a natural imbalance as a result of the pressing process during the manufacturing process. Compound grinding wheels have a higher or lower density in some areas. This natural imbalance cannot be removed with a dressing stone, however, the imbalance of the machine can be reduced by turning the grinding wheel, e.g. by 180° on the grinding wheel shaft.

### 3.5 First commissioning

**ATTENTION!**

Before commissioning the machine, all bolts, fastenings and protections must be checked and re-tightened as necessary!



**WARNING!**

Hazard due to the use of unsuitable grinding wheels and cleaning brushes. Only use grinding wheels and cleaning brushes that withstand the speed requirements and occurring loads.



**WARNING!**

First commissioned of the grinding machine by inexperienced personnel constitute a risk to personnel and equipment.



We do not accept any liability for damages caused by incorrectly performed commissioning.

- Personnel qualification on page 6

#### 3.5.1 Power supply

- Connect the electrical supply cable.
- Check the fusing (fuse) of your electrical supply.

## 4 Operation

**ATTENTION!**

Comply with performance limits. S6 40% and S6 10%. An explanation of the performance limits can be found in the technical data.



## ► Avoiding misuse on page 5

- Before you start grinding, check that the workpiece is free of oil, grease and paint residues to prevent smudging or soiling of the grinding wheels.
- Check the condition of the grinding wheels. If the grinding wheels are dirty or muddied, they must be roughened or replaced.
- If necessary, grind the workpiece with the coarse grinding wheel first, before using the fine grinding wheel.

The workpiece support can be adjusted for certain grinding operations. Loosen the clamping screw to adjust the workpiece support.

- Note that this adjustment results in a reduced potential load absorption of the workpiece support.
- The distance between the grinding wheel and workpiece support must be as low as possible.
- Only put slight pressure on the workpiece.
- If a grinding wheel is heavily soiled, the surface must be roughened again with a hand leveller.
- Grinding wheels must be disposed of in an environmentally friendly manner.
- Only use clean tap water for the wet grinding disc on the GQ 150 Q.

## 5 Inspection and maintenance

### WARNING!

Disconnect the mains plug before carrying out any work on the grinder.

### INFORMATION

The bearing is lifetime-lubricated. It is not necessary to lubricate it again.

The angular gear (worm gear) for reducing the speed of the wet grinding disc on the GQ 150 Q is permanently lubricated. It is not necessary to lubricate it again.

### WARNING!

Grinding wheels must be replaced, if there is an excessive distance between the external diameter of the grinding wheel and the completely readjusted workpiece support.



### 5.1 Replacing a grinding wheel

- Disassemble the protective cover of the grinding wheel.
- Loosen the shaft nut. The left-hand nut has a left-hand thread, the right-hand nut a right-hand thread.
- Hold the grinding wheel tight to loosen the nut. Ensure the correct direction of rotation for loosening the nut on the grinding disc shaft.
- Pull off the grinding wheel and the retaining washer from the shaft by hand.
- Check the new grinding wheel for visible damage prior to assembly.
- Before the grinding wheel is loaded for a grinding process, the concentricity of the grinding wheel must be checked.

### 5.2 Repair

Stürmer Maschinen GmbH accepts no liability or guarantee for damage or malfunctions resulting from non-compliance with these operating instructions.

For repairs, only use

- faultless and suitable tools only,
- only original spare parts or standard parts expressly approved by Stürmer Maschinen GmbH.

## 6 Appendix

### 6.1 Copyright

This document is protected by copyright. All derived rights are reserved, especially those of translation, re-printing, use of figures, broadcast, reproduction by photo-mechanical or similar means and recording in data processing systems, either partial or total.

Subject to technical changes without notice.

### 6.2 Liability claims/warranty

The manufacturer of the product, Stürmer Maschinen GmbH, Dr. Robert-Pfleger-Straße 26, D-96103 Hallstadt, Germany, does not grant you any further guarantees in addition to the buyer's statutory claims for defects against the seller, unless they are listed here or have been promised as part of an individual contractual rule..

- Stürmer Maschinen GmbH may choose to settle liability or warranty claims either directly with Stürmer Maschinen GmbH or via one of its dealers.  
Any defective products or components of such products will either be repaired or replaced by components which are free from defects. Replaced products or components become our property.
- The automatically generated original proof of purchase which shows the date of purchase, the type of machine and the serial number, if applicable, is the precondition in order to assert liability or warranty claims. If the original proof of purchase is not presented, we are not able to perform any services.
- Defects resulting from the following circumstances are excluded from liability and warranty claims:
  - Using the product beyond the technical options and proper use, in particular due to overstraining of the machine.
  - Self-inflicted damage due to incorrect operation and disregard of our operating instructions
  - Inattentive or incorrect handling and use of improper equipment
  - Unauthorized modifications and repairs
  - Insufficient installation and safeguarding of the machine
  - Disregarding the installation requirements and conditions of use
  - atmospheric discharges, overvoltage and lightning strokes as well as chemical influences
- The following articles are also not subject to liability or guarantee:
  - Wearing parts and components which are subject to normal and intended wear, such as V-belts, ball bearings, lighting, filters, seals, etc.
  - Non reproducible software errors
- Services provided by Stürmer Maschinen GmbH or one of its vicarious agents for fulfillment within the scope of an additional guarantee are neither an acknowledgement of a defect nor an acknowledgement of liability. These services neither delay nor interrupt the warranty period.
- The court of jurisdiction for legal disputes between businessmen is Bamberg.
- If any of the aforementioned agreements is totally or partially inoperative and/or invalid, a provision which nearest approaches the intent of the guarantor and remains within the framework of the limits of liability and warranty which are specified by this contract is deemed agreed.

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## 6.3 Advice for disposal / Options of reuse:

Please dispose of your equipment in an environmentally friendly manner, by not placing waste in the environment but in a professional manner.

Please do not simply throw away the packaging and later the disused machine, but dispose of both in accordance with the guidelines laid down by your city council/local authority or by an authorised disposal company.

### 6.3.1 Decommission

#### CAUTION!

Immediately decommission used machines in order to avoid later misuse and endangering of the environment or of persons.

- o Unplug the power cord.
- o Cut the connection cable.
- o Remove all operating materials from the used device which are harmful to the environment.
- o If applicable remove batteries and accumulators.
- o Disassemble the machine if required into easy-to-handle and reusable assemblies and component parts.
- o Dispose of machine components and operating fluids using the intended disposal methods.



### 6.3.2 Disposal of new device packaging

All used packaging materials and packaging aids from the machine are recyclable and generally need to be supplied to the material reuse.

The packaging wood can be supplied to the disposal or the reuse.

Any packaging components made of cardboard box can be chopped up and supplied to the waste paper collection.

The films are made of polyethylene (PE) and the cushion parts are made of polystyrene (PS). These materials can be reused after reconditioning if they are passed to a collection station or to the appropriate waste management enterprise.

Only forward the packaging materials correctly sorted to allow direct reuse.

#### INFORMATION

Please take care in your interest and in the interest of the environment that all component parts of the machine are only disposed of in the intended and admitted way.

Please note that the electrical devices comprise a variety of reusable materials as well as environmentally hazardous components. Please ensure that these components are disposed of separately and professionally. In case of doubt, please contact your municipal waste management. If appropriate, call on the help of a specialist waste disposal company for the treatment of the material.



### 6.3.3 Disposal of electrical and electronic components

Please make sure that the electrical components are disposed of professionally and according to the statutory provisions.

The device is composed of electrical and electronic components and must not be disposed of as household waste. According to the European Directive regarding electrical and electronic used devices and the implementation of national legislation, used power tools and electrical machines need to be collected separately and supplied to an environmentally friendly recycling centre.

As the machine operator, you should obtain information regarding the authorised collection or disposal system which applies for your company.



Please make sure that the electrical components are disposed of professionally and according to the legal regulations. Please only throw depleted batteries in the collection boxes in shops or at municipal waste management companies.

## 6.4 Disposal through municipal collection facilities

Disposal of used electrical and electronic components

(Applicable in the countries of the European Union and other European countries with a separate collecting system for those devices).

The sign on the product or on its packing indicates that the product must not be handled as common household waste, but that it needs to be disposed of at a central collection point for recycling. Your contribution to the correct disposal of this product will protect the environment and the public health. Incorrect disposal constitutes a risk to the environment and public health. Recycling of material will help reduce the consumption of raw materials. For further information about the recycling of this product, please consult your District Office, municipal waste collection station or the shop where you have purchased the product.



## 6.5 Product follow-up

We are required to perform a follow-up service for our products which extends beyond shipment.

We would be grateful if you could send us the following information:

- ☐ Modified settings
- ☐ Experiences with the grinding machine that are important for other users.
- ☐ Recurring failures of the grinding machine.

## 7 Ersatzteile - Spare parts

### 7.1 Ersatzteilbestellung - Ordering spare parts

Bitte geben Sie folgendes an - *Please indicate the following :*

- Seriennummer - *Serial No.*
- Maschinenbezeichnung - *Machines name*
- Herstellungsdatum - *Date of manufacture*
- Artikelnummer - *Article no.*

Die Artikelnummer befindet sich in der Ersatzteilliste. *The article no. is located in the spare parts list.* Die Seriennummer befindet sich am Typschild. *The serial no. is on the rating plate.*

### 7.2 Hotline Ersatzteile - Spare parts Hotline



+49 (0) 951-96555 -118

ersatzteile@stuermer-maschinen.de



### 7.3 Service Hotline

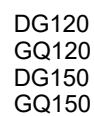


+49 (0) 951-96555 -100

service@stuermer-maschinen.de



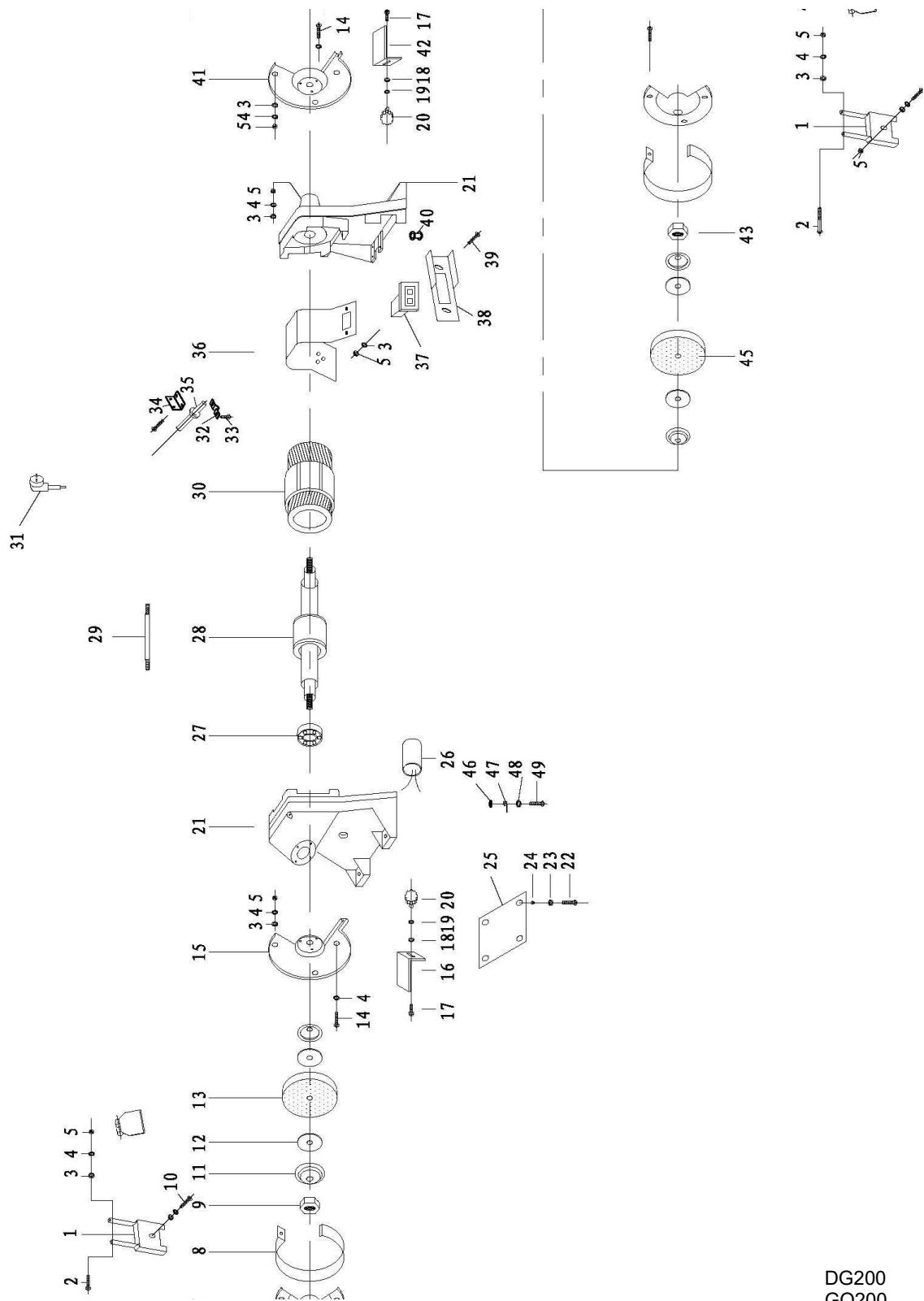
### 7.4.1 GQ 120 | GQ 150



Version 1.0 - 2024-11-28

| GQ 120   GQ 150 |                               |                    |               |               |            |
|-----------------|-------------------------------|--------------------|---------------|---------------|------------|
| Pos.            | Bezeichnung                   | Description        | Menge<br>Qty. | Artikelnummer |            |
|                 |                               |                    |               | Item no.      |            |
|                 |                               |                    |               | GQ 120        | GQ 150     |
| 1               | Schraube                      | Bolt               | 6             | 0314100001    | 0314101001 |
| 2               | Außerer Schutz                | Outer guard        | 1             | 0314100002    | 0314101002 |
| 3               | Mutter                        | Nut                | 1             | 0314100003    | 0314101003 |
| 4               | Radflansch                    | Wheel flange       | 4             | 0314100004    | 0314101004 |
| 5               | Typenschild des Rades         | Nameplate of wheel | 4             | 0314100005    | 0314101005 |
| 6               | Rad                           | Wheel              | 2             | 0314100006    | 0314101006 |
| 7               | Schraube                      | Bolt               | 2             | 0314100007    | 0314101007 |
| 8               | Schraube                      | Screw              | 2             | 0314100008    | 0314101008 |
| 9               | Halterung für das Augenschild | Eyeshield Bracket  | 2             | 0314100009    | 0314101009 |
| 10              | Augenschutz                   | Eyeshield          | 2             | 0314100010    | 0314101010 |
| 11              | Flache Scheibe                | Flat Washer        | 18            | 0314100011    | 0314101011 |
| 12              | Unterlegscheibe               | Washer             | 23            | 0314100012    | 0314101012 |
| 13              | Schraube                      | Screw              | 13            | 0314100013    | 0314101013 |
| 14              | Schraube                      | Bolt               | 2             | 0314100014    | 0314101014 |
| 15              | Abdeckung                     | Cover              | 2             | 0314100015    | 0314101015 |
| 16              | Lager                         | Bearing            | 2             | 0314100016    | 0314101016 |
| 17              | Stator                        | Stator             | 1             | 0314100017    | 0314101017 |
| 18              | Motorgehäuse                  | Motor housing      | 1             | 0314100018    | 0314101018 |
| 19              | Typenschild                   | Nameplate          | 1             | 0314100019    | 0314101019 |
| 20              | Rotor                         | Rotor              | 1             | 0314100020    | 0314101020 |
| 21              | Schraube                      | Bolt               | 4             | 0314100021    | 0314101021 |
| 22              | Rechter innerer Schutz        | Right Inner guard  | 1             | 0314100022    | 0314101022 |
| 23              | Schutzkappe                   | Guard bleet        | 2             | 0314100023    | 0314101023 |
| 24              | Mutter                        | Nut                | 1             | 0314100024    | 0314101024 |
| 25              | Außerer Schutz                | Outer guard        | 1             | 0314100025    | 0314101025 |
| 26              | Abdeckung                     | Cover              | 1             | 0314100026    | 0314101026 |
| 27              | Schraube                      | Bolt               | 2             | 0314100027    | 0314101027 |
| 28              | Rechte Werkzeugablage         | Right tool rest    | 1             | 0314100028    | 0314101028 |
| 29              | Unterlegscheibe               | Washer             | 2             | 0314100029    | 0314101029 |
| 30              | Knopfmutter                   | Knob nut           | 2             | 0314100030    | 0314101030 |
| 31              | Schalter                      | Switch             | 1             | 0314100031    | 0314101031 |
| 32              | Unterlegscheibe               | Washer             | 1             | 0314100032    | 0314101032 |
| 33              | Erdungsklemme                 | Ground terminal    | 1             | 0314100033    | 0314101033 |
| 34              | Unterlegscheibe               | Washer             | 1             | 0314100034    | 0314101034 |
| 35              | Schraube                      | Bolt               | 1             | 0314100035    | 0314101035 |
| 36              | Schraube                      | Bolt               | 2             | 0314100036    | 0314101036 |
| 37              | Grundplatte                   | Base plate         | 1             | 0314100037    | 0314101037 |
| 38              | Gummifuß                      | Rubber foot        | 4             | 0314100038    | 0314101038 |
| 39              | Schraube                      | Bolt               | 2             | 0314100039    | 0314101039 |
| 40              | Unterlegscheibe               | Washer             | 2             | 0314100040    | 0314101040 |
| 41              | Unterlegscheibe               | Washer             | 1             | 0314100041    | 0314101041 |
| 42              | Schraube                      | Bolt               | 1             | 0314100042    | 0314101042 |
| 43              | Kondensator                   | Capacitor          | 1             | 0314100043    | 0314101043 |
| 44              | Kabel                         | Cable              | 1             | 0314100044    | 0314101044 |
| 45              | Schraube                      | Bolt               | 3             | 0314100045    | 0314101045 |
| 46              | Linker innerer Schutz         | Left Inner guard   | 1             | 0314100046    | 0314101046 |
| 47              | Linke Werkzeugablage          | Left tool rest     | 1             | 0314100047    | 0314101047 |
| 48              | Grundkörper                   | Base               | 1             | 0314100048    | 0314101048 |
| 49              | Schraube                      | Bolt               | 2             | 0314100049    | 0314101049 |
| 50              | Kabeltülle                    | Cable Tube         | 1             | 0314100050    | 0314101050 |
| 51              | Schraube                      | Bolt               | 2             | 0314100051    | 0314101051 |
| 52              | Unterlegscheibe               | Washer             | 2             | 0314100052    | 0314101052 |
| 53              | Kabelschelle                  | Cable clip         | 1             | 0314100053    | 0314101053 |
| 54              | Kabelbaum                     | Cable clump        | 1             | 0314100054    | 0314101054 |
| 55              | Schraube                      | Bolt               | 1             | 0314100055    | 0314101055 |
| 56              | Schalterplatte                | Switch Plate       | 1             | 0314100056    | 0314101056 |
| 57              | Schraube                      | Bolt               | 2             | 0314100057    | 0314101057 |

7.4.2 GQ 200

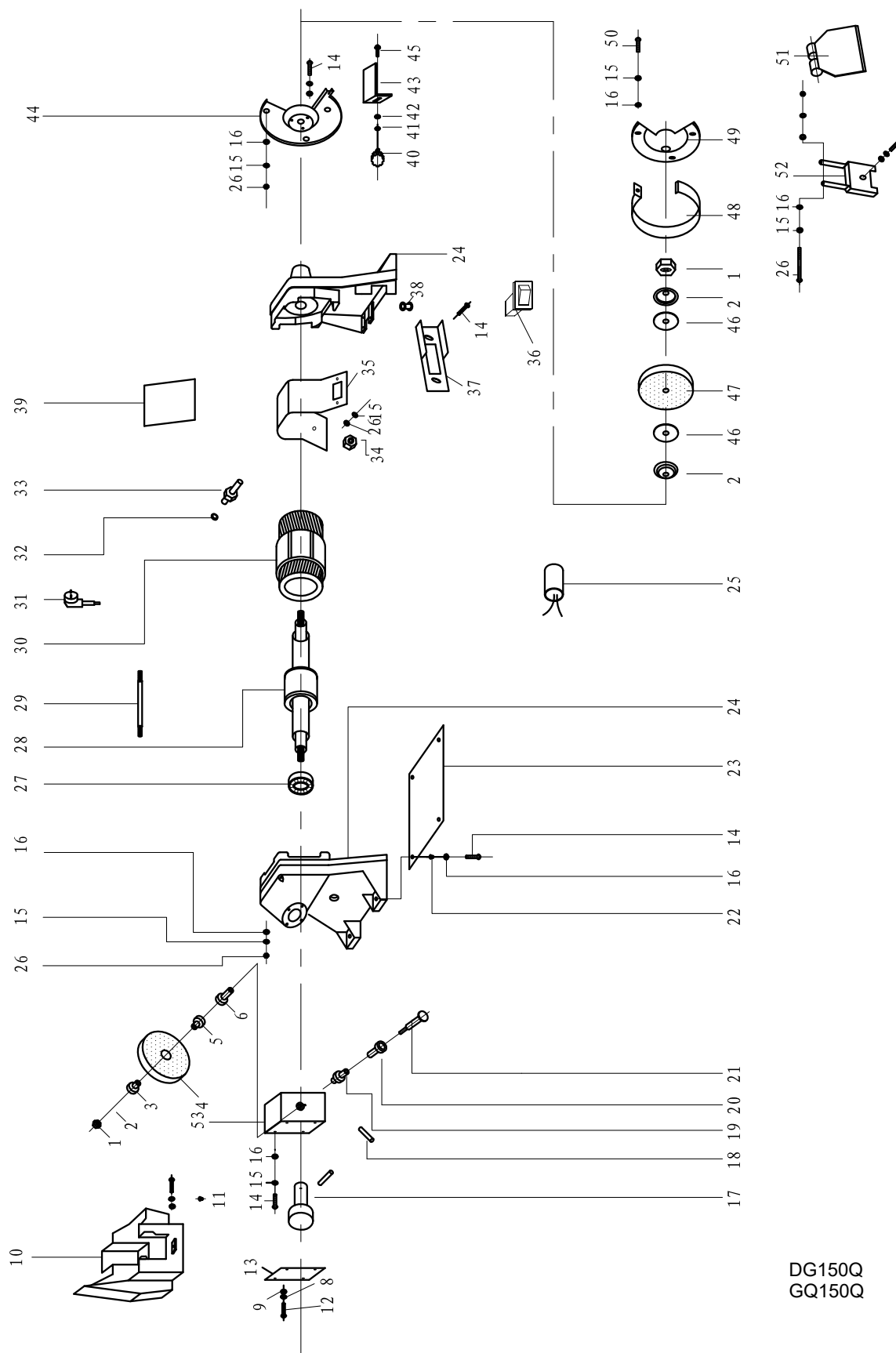


DG200  
GQ200

GQ120\_GQ150\_GQ200\_GQ150Q\_GQ150B\_parts.fm

| GQ 200 |                                                 |                                      |            |            |                        |
|--------|-------------------------------------------------|--------------------------------------|------------|------------|------------------------|
| Pos.   | Bezeichnung                                     | Description                          | Menge Qty. | Größe Size | Artikelnummer Item no. |
|        |                                                 |                                      |            |            | GQ 200                 |
| 1      | Halterung für das Augenschild                   | Eyeshield Bracket                    | 2          |            | 0314102001             |
| 2      | Kreuzschlitzschraube                            | Phillips screw                       | 2          | M5x35      |                        |
| 3      | Flache Scheibe                                  | Flat Washer                          | 18         | Ø5         |                        |
| 4      | Unterlegscheibe                                 | Washer                               | 20         | Ø5         |                        |
| 5      | Schraube                                        | Screw                                | 12         | M5         | 0314102005             |
| 6      | Kreuzschlitzschraube                            | Phillips screw                       | 6          | M5x45      |                        |
| 7      | Linker äußerer Schutz                           | Left Outer guard                     | 2          |            | 0314102007             |
| 8      | Mittlerer Ring                                  | Middle ring                          | 1          |            | 0314102008             |
| 9      | Mutter                                          | Nut                                  | 2          | M12(left)  | 0314102009             |
| 10     | Kreuzschlitzschraube, derzeit nicht in Gebrauch | Phillips screw, currently not in use |            | M5x10      |                        |
| 11     | Radflansch                                      | Wheel flange                         | 4          |            | 0314102011             |
| 12     | Typenschild des Rades                           | Nameplate of wheel                   | 2          |            | 0314102012             |
| 13     | Schleifscheibe                                  | Grinder Wheel                        | 1          |            | 0314102013             |
| 14     | Schraube                                        | Bolt                                 | 6          | M5x10      | 0314102014             |
| 15     | Linker innerer Schutz                           | Left Inner guard                     | 1          |            | 0314102015             |
| 16     | Linke Werkzeugablage                            | Left tool rest                       | 2          |            | 0314102016             |
| 17     | Schraube mit Vierkantansatz                     | Square Neck Screw                    | 2          | M6x12      | 0314102017             |
| 18     | Innenverzahnung Unterlegscheibe                 | Inner tooth Washer                   | 2          | Ø6         | 0314102018             |
| 19     | Flache Scheibe                                  | Flat Washer                          | 2          | Ø6         | 0314102019             |
| 20     | Knopfmutter                                     | Knob Nut                             | 2          |            | 0314102020             |
| 21     | Hauptkörper                                     | Main Body                            | 2          |            | 0314102021             |
| 22     | Kreuzschlitzschraube                            | Phillips screw                       | 4          | M5x10      |                        |
| 23     | Unterlegscheibe                                 | Washer                               | 4          | Ø5         | 0314102023             |
| 24     | Gummifuß                                        | Rubber Feet                          | 4          |            | 0314102024             |
| 25     | Grundplatte                                     | Base Plate                           | 1          |            | 0314102025             |
| 26     | Kondensator                                     | Capacitor                            | 1          |            | 0314102026             |
| 27     | Lager                                           | Bearing                              | 2          |            | 0314102027             |
| 28     | Rotor                                           | Rotor                                | 1          |            | 0314102028             |
| 29     | Kreuzschlitzschraube                            | Phillips screw                       | 4          | M5x125     |                        |
| 30     | Stator                                          | Stator                               | 1          |            | 0314102030             |
| 31     | Kabel                                           | Cable                                | 1          |            | 0314102031             |
| 32     | Druckleitungskarte                              | Pressure line card                   | 1          |            | 0314102032             |
| 33     | Schraube                                        | Screw                                | 4          |            | 0314102033             |
| 34     | Druckleistungsblock                             | Pressure line block                  | 1          |            | 0314102034             |
| 35     | Auslaufschlauch                                 | Outlet hose                          | 1          |            | 0314102035             |
| 36     | Mittlerer Ring                                  | Middle ring                          | 1          |            | 0314102036             |
| 37     | Schalter                                        | Switch                               | 1          |            | 0314102037             |
| 38     | Schalttafel                                     | Switch Panel                         | 1          |            | 0314102038             |
| 39     | Kreuzschlitzschraube                            | Phillips screw                       | 2          | M5x10      |                        |
| 40     | Kabeladapter                                    | Cable adaptor                        | 1          |            | 0314102040             |
| 41     | Rechter innerer Schutz                          | Right Inner guard                    | 1          |            | 0314102041             |
| 42     | Rechte Werkzeugablage                           | Right tool rest                      | 1          |            | 0314102042             |
| 43     | Mutter                                          | Nut                                  | 1          | M12        | 0314102043             |
| 44     | Augenschutz                                     | Eyeshield                            | 2          |            | 0314102044             |
| 45     | Rad                                             | Wheel                                | 1          |            | 0314102045             |
| 46     | Innenverzahnung Unterlegscheibe                 | Inner tooth Washer                   | 1          | Ø4         |                        |
| 47     | Erdungsklemme                                   | Ground terminal                      | 1          |            | 0314102047             |
| 48     | Unterlegscheibe                                 | Washer                               | 1          | Ø4         |                        |
| 49     | Schraube                                        | Screw                                | 1          | M4         |                        |

### 7.4.3 GQ 150 Q

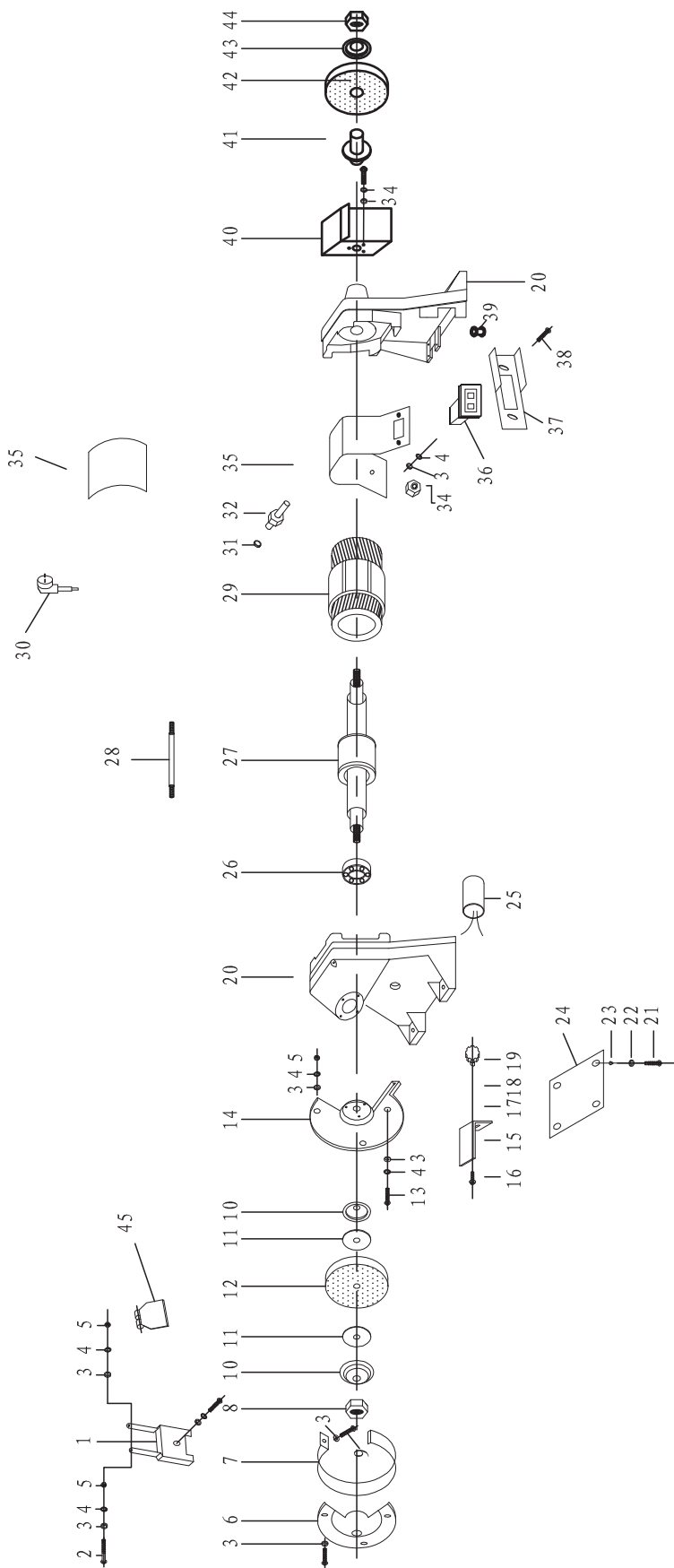


DG150Q  
GQ150Q

GQ120\_GQ150\_GQ200\_GQ150Q\_GQ150B\_parts.fm

| GQ 150 Q |                               |                    |               |               |
|----------|-------------------------------|--------------------|---------------|---------------|
| Pos.     | Bezeichnung                   | Description        | Menge<br>Qty. | Artikelnummer |
|          |                               |                    |               | Item no.      |
|          |                               |                    |               | GQ 150 Q      |
| 1        | Klemmmutter Handrad           | Wheel Lock Nut     | 2             | 0314105001    |
| 2        | Radflansch                    | Wheel flange       | 2             | 0314105002    |
| 3        | Außerer Radkranz              | Outer wheel flange | 1             | 0314105003    |
| 4        | Nass Schleifscheibe           | Wet grinding wheel | 1             | 0314105004    |
| 5        | Ininnerer Radflansch          | Inner wheel flange | 1             | 0314105005    |
| 6        | Zapfenlager                   | Journal Bearing    | 1             | 0314105006    |
| 7        | Schraube                      | Bolt               | 3             | 0314105007    |
| 8        | Unterlegscheibe               | Washer             | 6             | 0314105008    |
| 9        | Unterlegscheibe               | Washer             | 6             | 0314105009    |
| 10       | Wasserbehälter                | Water Trough       | 1             | 0314105010    |
| 11       | Gummi Kork                    | Rubber Cork        | 1             | 0314105011    |
| 12       | Schraube                      | Bolt               | 3             | 0314105012    |
| 13       | Deckplatte                    | Cover plate        | 1             | 0314105013    |
| 14       | Schraube                      | Bolt               | 12            | 0314105014    |
| 15       | Unterlegscheibe               | Washer             | 25            | 0314105015    |
| 16       | Unterlegscheibe               | Washer             | 25            | 0314105016    |
| 17       | Schnecke                      | Worm               | 1             | 0314105017    |
| 18       | Stift                         | Pin                | 2             | 0314105018    |
| 19       | Schneckenrad                  | Worm Wheel         | 1             | 0314105019    |
| 20       | Zapfenlager                   | Joural Bearing     | 1             | 0314105020    |
| 21       | Kurze Achse                   | Short Axis         | 1             | 0314105021    |
| 22       | Gummifuß                      | Rubber Feet        | 4             | 0314105022    |
| 23       | Grundplatte                   | Base plate         | 1             | 0314105023    |
| 24       | Linker Hauptkörper            | Left Main Body     | 2             | 0314105024    |
| 25       | Kondensator                   | Capacitor          | 1             | 0314105025    |
| 26       | Schraube                      | Screw              | 11            | 0314105026    |
| 27       | Lager                         | Bearing            | 2             | 0314105027    |
| 28       | Rotor                         | Rotor              | 1             | 0314105028    |
| 29       | Schraube                      | Bolt               | 4             | 0314105029    |
| 30       | Stator                        | Stator             | 1             | 0314105030    |
| 31       | Kabel                         | Cable              | 1             | 0314105031    |
| 32       | Weicher Schlauch              | Soft tube          | 1             | 0314105032    |
| 33       | Schraube                      | Bolt               | 4             | 0314105033    |
| 34       | Presskabelplatte              | Press cable plate  | 1             | 0314105034    |
| 35       | Mittlerer Ring                | Middle ring        | 1             | 0314105035    |
| 36       | Europäischer Schalter         | European switch    | 1             | 0314105036    |
| 37       | Schalterplatte                | Switch Plate       | 1             | 0314105037    |
| 38       | Kabelschutz                   | Cable Protector    | 1             | 0314105038    |
| 39       | Typenschild                   | Nameplate          | 1             | 0314105039    |
| 40       | Arbeitsgriff                  | Work handle        | 1             | 0314105040    |
| 41       | Unterlegscheibe               | Washer             | 1             | 0314105041    |
| 42       | Unterlegscheibe               | Washer             | 1             | 0314105042    |
| 43       | Werkzeugablage                | Tool Rest          | 1             | 0314105043    |
| 44       | Ininnerer Schutz              | Inner guard        | 1             | 0314105044    |
| 45       | Schraube mit Vierkantansatz   | Square Neck Screw  | 1             | 0314105045    |
| 46       | Typenschild des Rades         | Nameplate of wheel | 2             | 0314105046    |
| 47       | Rad                           | wheel              | 1             | 0314105047    |
| 48       | Wicklung                      | Winding            | 1             | 0314105048    |
| 49       | Außerer Schutz                | Outer guard        | 1             | 0314105049    |
| 50       | Schraube                      | Bolt               | 1             | 0314105050    |
| 51       | Augenschutz                   | Eyeshield          | 4             | 0314105051    |
| 52       | Halterung für das Augenschild | Eyeshield Bracket  | 1             | 0314105052    |
| 53       | Schneckengetriebegehäuse      | Worm Gear Case     | 1             | 0314105053    |
| 54       | Kabelklemme                   | Press cable clip   | 1             | 0314105054    |

7.4.4 GQ 150 B

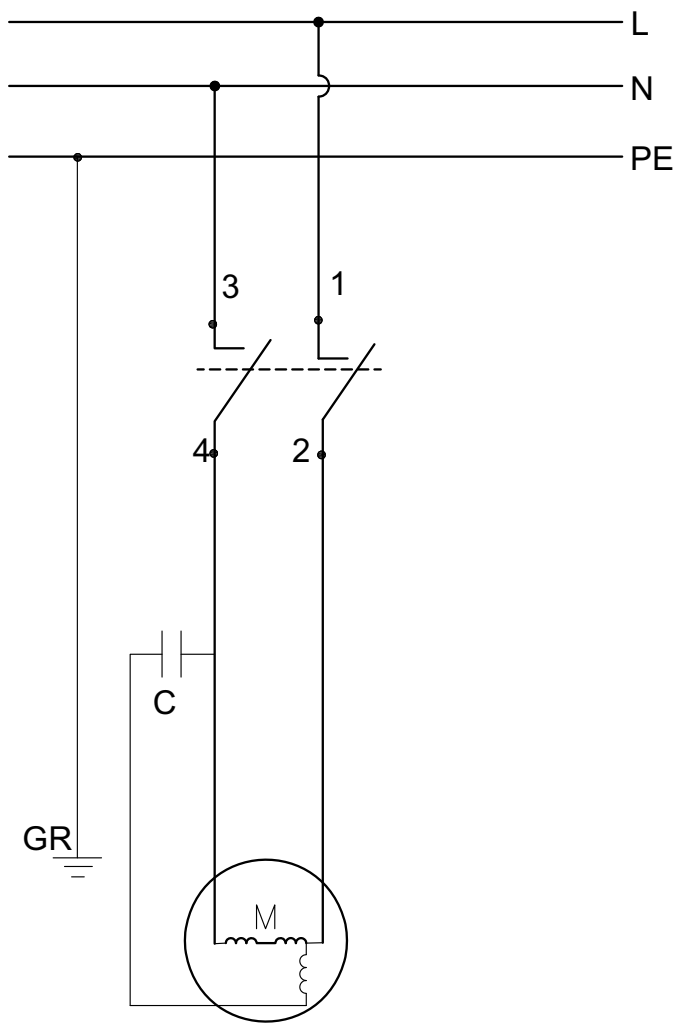


DG150B  
GQ150B

GQ120\_GQ150\_GQ200\_GQ150Q\_GQ150B\_parts.fm

| GQ 150 B |                               |                    |               |               |
|----------|-------------------------------|--------------------|---------------|---------------|
| Pos.     | Bezeichnung                   | Description        | Menge<br>Qty. | Artikelnummer |
|          |                               |                    |               | Item no.      |
|          |                               |                    |               | GQ 150 B      |
| 1        | Halterung für das Augenschild | Eyeshield Bracket  | 1             | 0314106001    |
| 2        | Schraube                      | Bolt               | 4             | 0314106002    |
| 3        | Unterlegscheibe               | Washer             | 16            | 0314106003    |
| 4        | Unterlegscheibe               | Washer             | 12            | 0314106004    |
| 5        | Schraube                      | Screw              | 5             | 0314106005    |
| 6        | Linker äußerer Schutz         | Left Outer guard   | 1             | 0314106006    |
| 7        | Mittlerer Ring                | Middle ring        | 1             | 0314106007    |
| 8        | Mutter                        | Nut                | 1             | 0314106008    |
| 9        | Schraube                      | Bolt               | 1             | 0314106009    |
| 10       | Radflansch                    | wheel flange       | 2             | 0314106010    |
| 11       | Typenschild des Rades         | Nameplate of wheel | 2             | 0314106011    |
| 12       | Schleifscheibe                | Grinder Wheel      | 1             | 0314106012    |
| 13       | Schraube                      | Bolt               | 6             | 0314106013    |
| 14       | Linker innerer Schutz         | Left Inner guard   | 1             | 0314106014    |
| 15       | Linke Werkzeugablage          | Left tool rest     | 1             | 0314106015    |
| 16       | Schraube mit Vierkantansatz   | Square Neck Screw  | 1             | 0314106016    |
| 17       | Unterlegscheibe               | Washer             | 1             | 0314106017    |
| 18       | Unterlegscheibe               | Washer             | 1             | 0314106018    |
| 19       | Knopfmutter                   | Knob Nut           | 1             | 0314106019    |
| 20       | Hauptkörper                   | Main Body          | 2             | 0314106020    |
| 21       | Schraube                      | Bolt               | 4             | 0314106021    |
| 22       | Unterlegscheibe               | Washer             | 4             | 0314106022    |
| 23       | Gummifuß                      | Rubber Feet        | 4             | 0314106023    |
| 24       | Grundplatte                   | Base Plate         | 1             | 0314106024    |
| 25       | Kondensator                   | Capacitor          | 1             | 0314106025    |
| 26       | Lager                         | Bearing            | 2             | 0314106026    |
| 27       | Rotor                         | Rotor              | 1             | 0314106027    |
| 28       | Schraube                      | Bolt               | 4             | 0314106028    |
| 29       | Stator                        | Stator             | 1             | 0314106029    |
| 30       | Stecker und Kabel             | Plug&cord          | 1             | 0314106030    |
| 31       | Kabelmutter                   | Cable Nut          | 1             | 0314106031    |
| 32       | Kabeladapter                  | Cable adaptor      | 1             | 0314106032    |
| 33       | Mittlerer Ring                | Middle ring        | 1             | 0314106033    |
| 34       | Schraube                      | Screw              | 1             | 0314106034    |
| 35       | Typenschild                   | Nameplate          | 1             | 0314106035    |
| 36       | Schalter                      | Switch             | 1             | 0314106036    |
| 37       | Schalttafel                   | Switch Panel       | 1             | 0314106037    |
| 38       | Schraube                      | Bolt               | 2             | 0314106038    |
| 39       | Kabeladapter                  | Cable adaptor      | 1             | 0314106039    |
| 40       | Rechter Schutz                | Right guard        | 1             | 0314106040    |
| 41       | Innerer Radflansch            | Inner wheel flange | 1             | 0314106041    |
| 42       | Rad                           | Wheel              | 1             | 0314106042    |
| 43       | Äußerer Radkranz              | Outer wheel flange | 1             | 0314106043    |
| 44       | Mutter                        | Nut                | 1             | 0314106044    |
| 45       | Augenschutz                   | Eyeshield          | 1             | 0314106045    |

7.5 Schaltplan - Wiring diagram



GQ120\_GQ150\_GQ200\_GQ150Q\_GQ150B\_parts.fm

## EC Declaration of Conformity

according to Machinery Regulation 2023/1230 Annex V Part A

**The manufacturer /** Stürmer Maschinen GmbH  
**distributor:** Dr.-Robert-Pfleger-Str. 26  
D - 96103 Hallstadt

**hereby declares that the following product**

**Product designation:** Grinding machine

**Type designation:** GQ120 | GQ150 | GQ200 | GQ150Q | GQ150B

Grinding machine for private persons which meets all the relevant provisions of the above mentioned Machinery Regulation as well as the other directives applied (below) including their amendments in force at the time of declaration.

**The following additional EU directives have been applied:**

EMC Directive 2014/30/EU ; Restriction of the use of certain hazardous substances in electrical and electronic equipment 2015/863/EU

**The following harmonized standards were applied:**

EN 62841-1:2015/A11:2022 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 1: General requirements

EN 62841-3-4:2016/A12:2020 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders

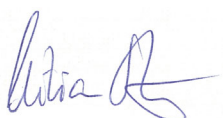
EN 60204-1:2019-06 Safety of machinery - Electrical equipment of machines - Part 1: General requirements

EN ISO 13849-1:2016-06 Safety of machinery - Safety-related parts of control systems

EN ISO 12100:2011-03 Safety of machinery - General principles for design - Risk assessment and risk reduction

Name and address of the person authorized to compile the technical file:

Kilian Stürmer, phone: +49 (0) 951 96555 - 800



Kilian Stürmer  
(CEO, General manager)

Hallstadt, 2024-10-07



